

**BELANGRIJK:**  
houd deze schema's bij het orgel! !

**IMPORTANT:**  
keep the schematic diagrams with the organ! !

**WICHTIG:**  
Schaltpläne bei Orgel aufbewahren! !

# SERVICE INFORMATION

0476

# solina

## STRING ENSEMBLE

### INHOUD – CONTENTS – INHALT

	Part No.*	Sheet No.
Gate circuit	021.0001	015.0212
Bass circuit	003.3015	015.0212
Supplementary circuit	003.2182	015.0212
Register circuit	003.3016	015.0212
Divider circuit A	005.0077	
Divider circuit B	005.0078	
Master oscillator circuit	005.0124	
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Wiring diagram		015.0213
Signal flow diagram		015.0214
Control circuit	012.0025	
Modulator circuit B	012.0034	
Divider circuit C	005.0082	
Power supply	008.0066	

\* Printed circuit  
Part number

### TECHNISCHE GEGEVENS

Netfrequentie  
Netspanning\*

**Ingang (input):**  
Expressionpedal

**Output:**  
Low output I  
High output II

**Zekeringen:**  
net: 220 V\*  
18,5 V: 2x3,15 AT

### TECHNICAL DATA

Mains frequency  
Mains voltage\*

**Input connection:**  
Expressionpedal

**Output:**  
Low output I  
High output II

**Fuses:**  
mains: 220 V\*  
18,5 V: 2x3,15 A (slow)

### TECHNISCHE DATEN

Netzfrequenz  
Netzspannung\* 50/60 Hz  
220 V (115-240-250\*)

**Eingang (input):**  
Schwellpedal

**Ausgangsabnahme:**  
Low output I + 1,5 V tt - imp: 3 kOhm  
High output II + 5 V tt - imp: 5 kOhm

**Sicherungen:**  
Netz: 220 V\* thermal release in primary  
18,5 V: 2x3,15 A (träge) winding (micro STB 4239  
disconnect temp. 115 C)

\* 115 - 240 - 250 V.

\* Voor 115, 240 en 250 Volt netspanning; als volgt te werk gaan:  
– verwijder kap van de transformator  
– de draad op de 220 V aansluiting omzetten naar de gewenste netspanning

\* For 115,240 and 250 Volt operation:  
– remove cover of transformer  
– relocate mains voltage to appropriate voltage.

\*Für 115, 240 und 250 V Netzspannung wie folgt handeln:  
– Die Kappe des Transformators entfernen  
– Den Draht des 220 V Anschlusses in die gewünschte Netzspannung umsetzen.

**Service dokumentatie:**  
**Service information:**  
**Kundendienst dokumentation:**

(aanvragen bij servicedienst te Bodegraven)  
inquire by your importer or MCH Holland)  
(fragen Sie bei Ihrem Importeur oder MCH)

Service onderdelenlijst zie:  
Service parts list see:  
Service-Ersatzteilliste siehe:



Storings- en lokalisatielijst zie:  
Trouble shooting guide see:  
Fehlersucheliste siehe:



**ATTENTIE:**

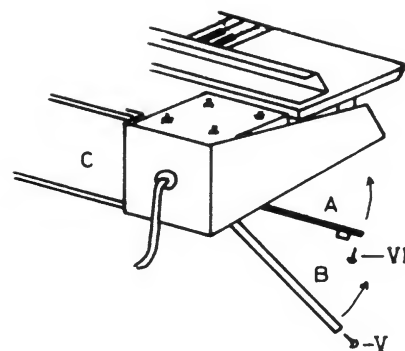
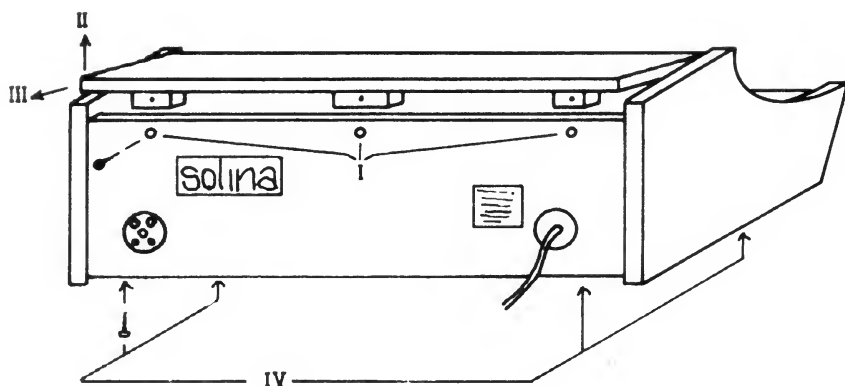
**ATTENTION:**

**ACHTUNG:**

**THEORY OF OPERATION**

Divider circuit \* 2 \*

Divider circuit should be \*2\* instead of \*1\*



### DEMONTAGE STRING-ENSEMBLE

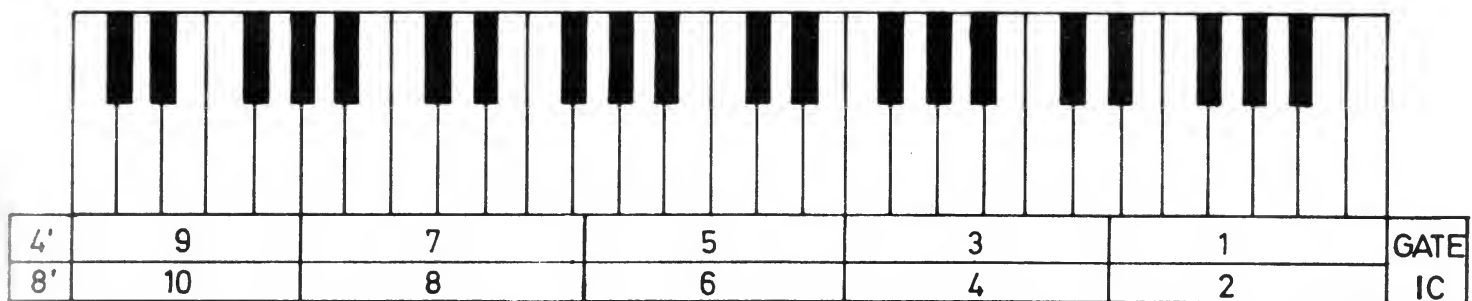
1. Verwijder schroeven I
2. Til bovenblad op, zie II
3. Schuif bovenblad weg, zie III
4. Verwijder schroeven IV
5. De konstruktie kan nu uit de kast worden getild.
6. De panelen A en B zijn klappbaar na verwijdering van schroeven VI en V

### DISASSEMBLY OF STRING-ENSEMBLE

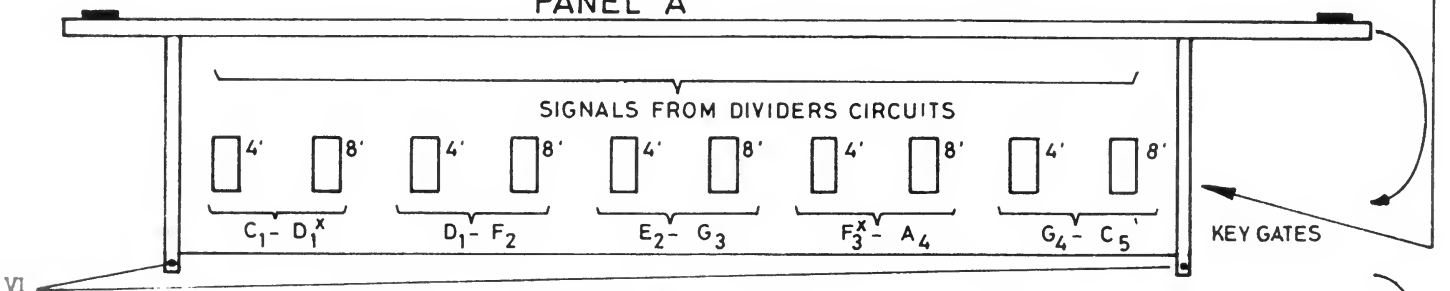
1. Remove (3) screws I
2. Raise cover, see II
3. Push cover out of the way, see III
4. Remove (4) screws IV
5. Lift out unit from cabinet
6. Panels A and B will fold out of way after removing screws V and VI

### DEMONTAGE STRING-ENSEMBLE

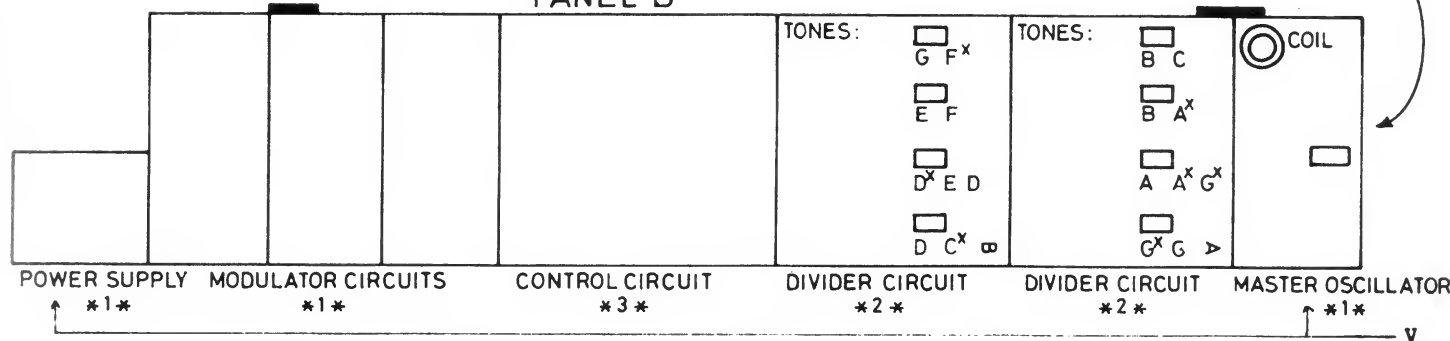
1. Schrauben rausdrehen (siehe I)
2. Oberbrett anheben (siehe II)
3. Oberbrett wegschieben (siehe III)
4. Schrauben rausdrehen (siehe IV)
5. Die Konstruktion kann jetzt aus der Kiste gehoben werden.
6. Die Paneelen a und b sind klappbar, nachdem die Schrauben rausgedreht sind. (siehe V und VI).



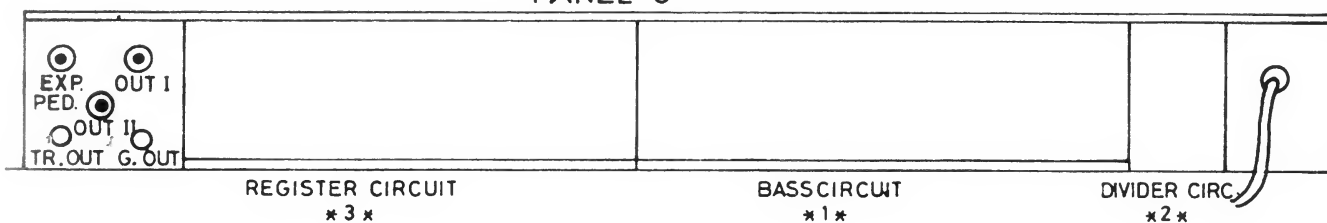
### PANEL A

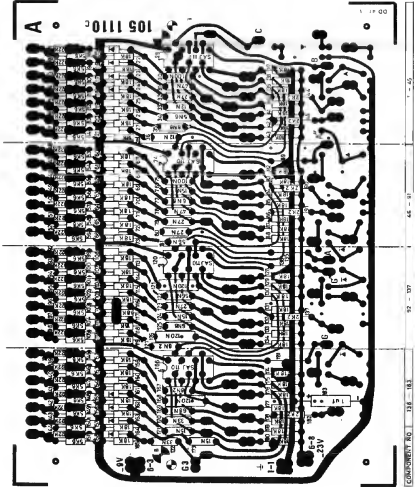


### PANEL B



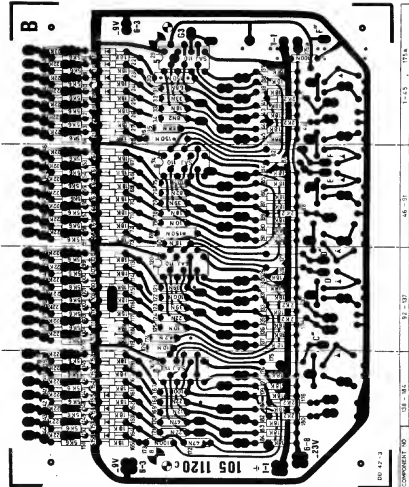
### PANEL C





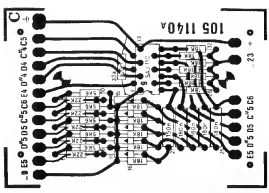
PART NO.	DESCRIPTION	QTY	REVISION
105 1110	105 1110	1	1
105 1111	105 1111	1	1
105 1112	105 1112	1	1
105 1113	105 1113	1	1
105 1114	105 1114	1	1
105 1115	105 1115	1	1
105 1116	105 1116	1	1
105 1117	105 1117	1	1
105 1118	105 1118	1	1
105 1119	105 1119	1	1
105 1120	105 1120	1	1
105 1121	105 1121	1	1
105 1122	105 1122	1	1
105 1123	105 1123	1	1
105 1124	105 1124	1	1
105 1125	105 1125	1	1
105 1126	105 1126	1	1
105 1127	105 1127	1	1
105 1128	105 1128	1	1
105 1129	105 1129	1	1
105 1130	105 1130	1	1
105 1131	105 1131	1	1
105 1132	105 1132	1	1
105 1133	105 1133	1	1
105 1134	105 1134	1	1
105 1135	105 1135	1	1
105 1136	105 1136	1	1
105 1137	105 1137	1	1
105 1138	105 1138	1	1
105 1139	105 1139	1	1
105 1140	105 1140	1	1

**DIVIDER CIRCUIT A**  
PART NO. 005 0077



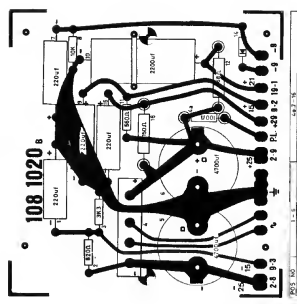
PART NO.	DESCRIPTION	QTY	REVISION
105 1120	105 1120	1	1
105 1121	105 1121	1	1
105 1122	105 1122	1	1
105 1123	105 1123	1	1
105 1124	105 1124	1	1
105 1125	105 1125	1	1
105 1126	105 1126	1	1
105 1127	105 1127	1	1
105 1128	105 1128	1	1
105 1129	105 1129	1	1
105 1130	105 1130	1	1
105 1131	105 1131	1	1
105 1132	105 1132	1	1
105 1133	105 1133	1	1
105 1134	105 1134	1	1
105 1135	105 1135	1	1
105 1136	105 1136	1	1
105 1137	105 1137	1	1
105 1138	105 1138	1	1
105 1139	105 1139	1	1
105 1140	105 1140	1	1

**DIVIDER CIRCUIT B**  
PART NO. 005 0078



PART NO.	DESCRIPTION	QTY	REVISION
105 1140	105 1140	1	1
105 1141	105 1141	1	1
105 1142	105 1142	1	1
105 1143	105 1143	1	1
105 1144	105 1144	1	1
105 1145	105 1145	1	1
105 1146	105 1146	1	1
105 1147	105 1147	1	1
105 1148	105 1148	1	1
105 1149	105 1149	1	1
105 1150	105 1150	1	1
105 1151	105 1151	1	1
105 1152	105 1152	1	1
105 1153	105 1153	1	1
105 1154	105 1154	1	1
105 1155	105 1155	1	1
105 1156	105 1156	1	1
105 1157	105 1157	1	1
105 1158	105 1158	1	1
105 1159	105 1159	1	1
105 1160	105 1160	1	1

**DIVIDER CIRCUIT C**  
PART NO. 005 0082



PART NO.	DESCRIPTION	QTY	REVISION
108 1020	108 1020	1	1
108 1021	108 1021	1	1
108 1022	108 1022	1	1
108 1023	108 1023	1	1
108 1024	108 1024	1	1
108 1025	108 1025	1	1
108 1026	108 1026	1	1
108 1027	108 1027	1	1
108 1028	108 1028	1	1
108 1029	108 1029	1	1
108 1030	108 1030	1	1
108 1031	108 1031	1	1
108 1032	108 1032	1	1
108 1033	108 1033	1	1
108 1034	108 1034	1	1
108 1035	108 1035	1	1
108 1036	108 1036	1	1
108 1037	108 1037	1	1
108 1038	108 1038	1	1
108 1039	108 1039	1	1
108 1040	108 1040	1	1

**POWER SUPPLY**  
PART NO. 008 0086  
**STRING ENSEMBLE**

PART NO. 005 0124

PART. NO 012 - 0025

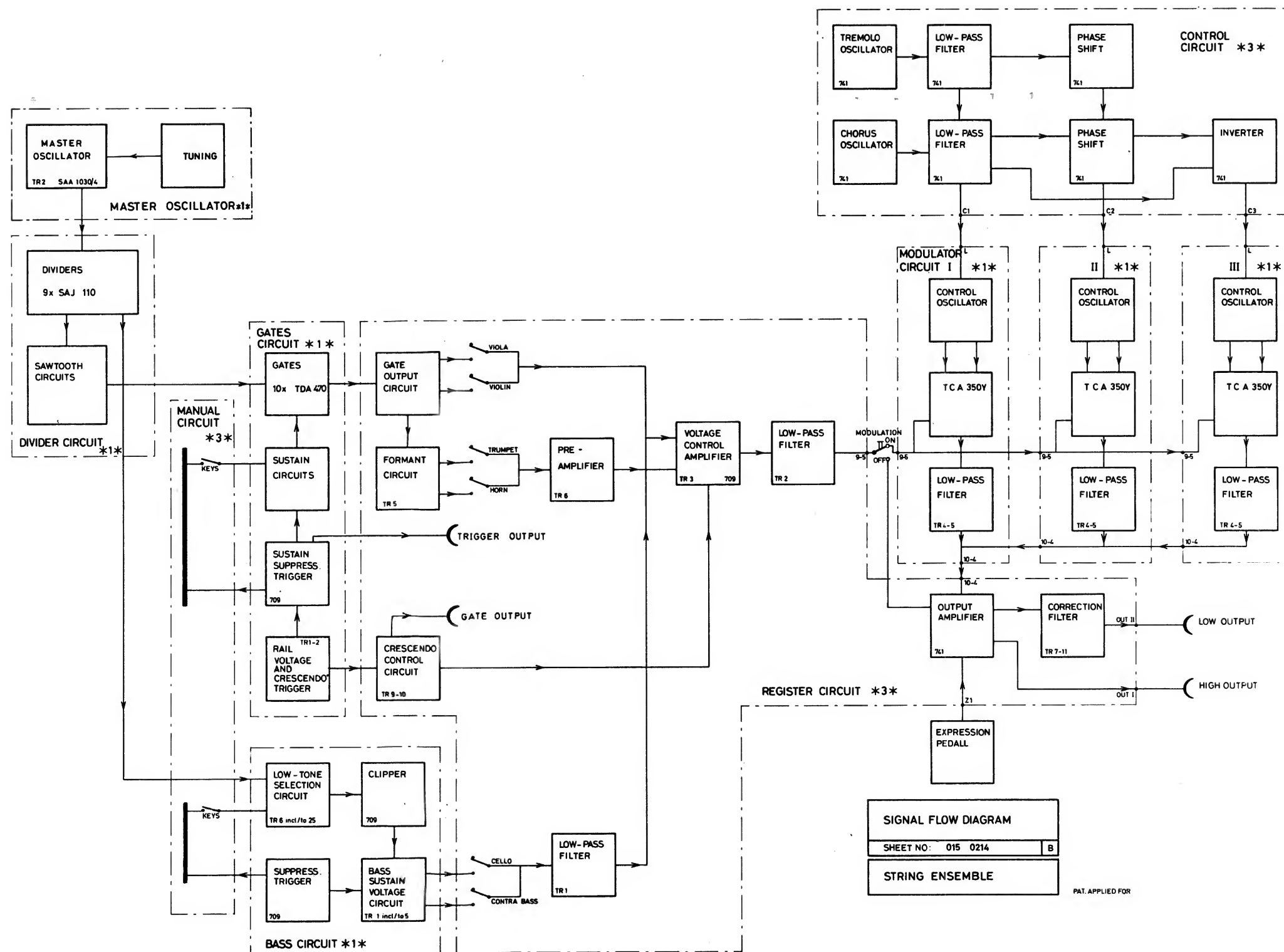
112 1014

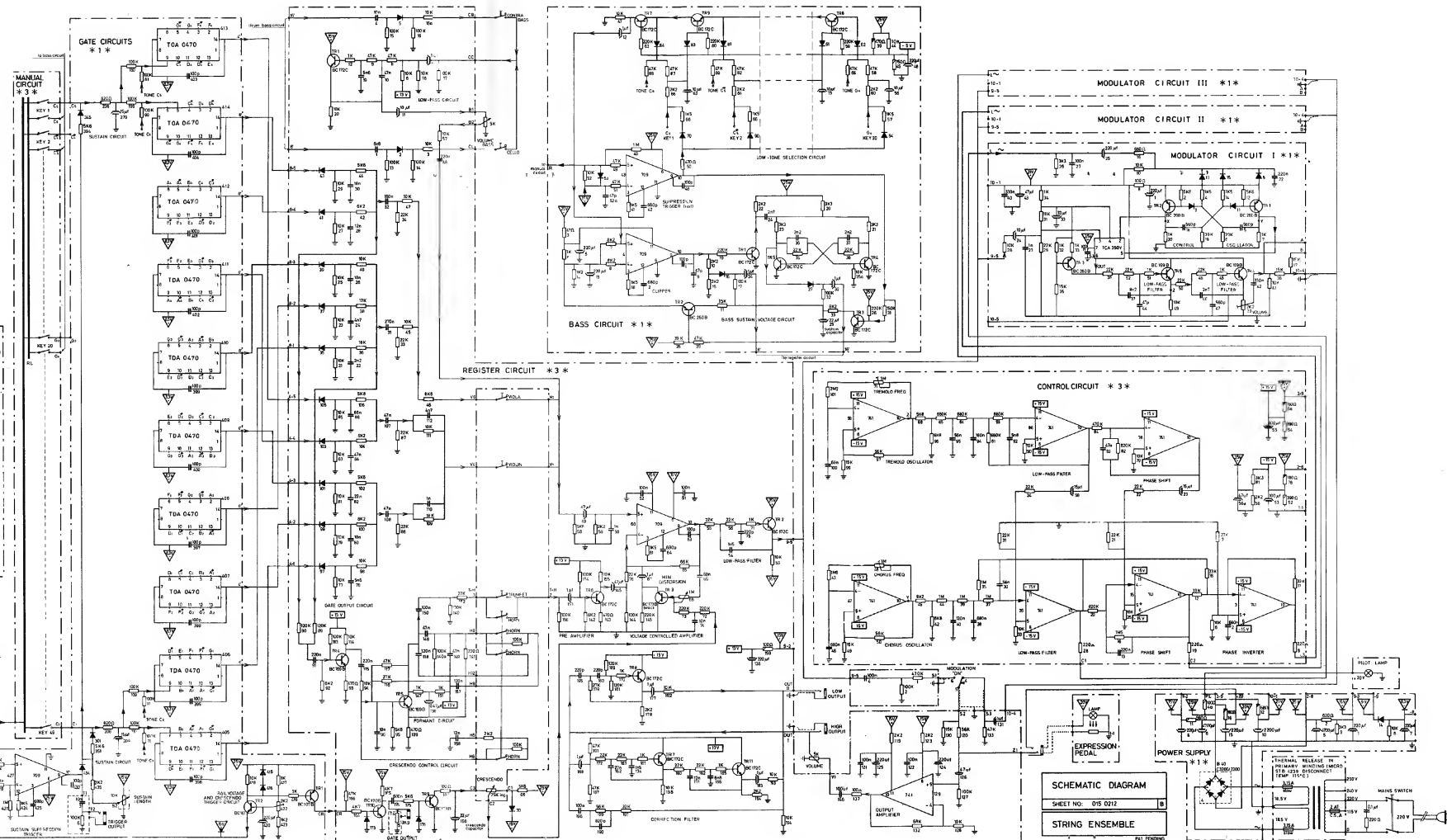
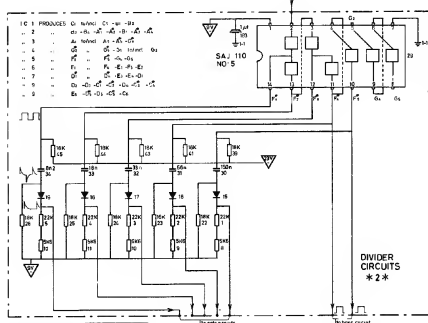
MODULATOR CIRCUIT B

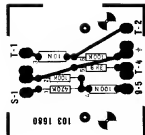
PART NO. 012 0034

COMPONENT	1, 10, 32	21, 28, 37	31, 38, 39	6, 8, 20	1, 3
TRANSFORMER	10, 4, 5	10, 3		10, 2	10, 1



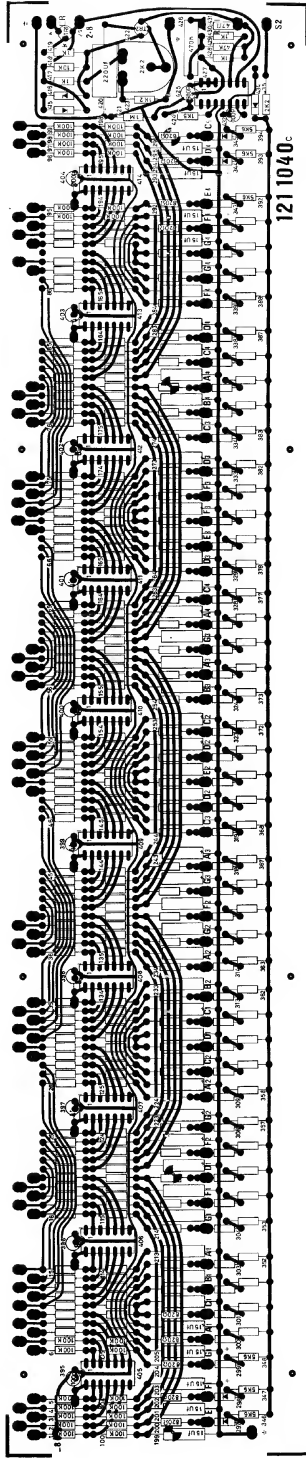






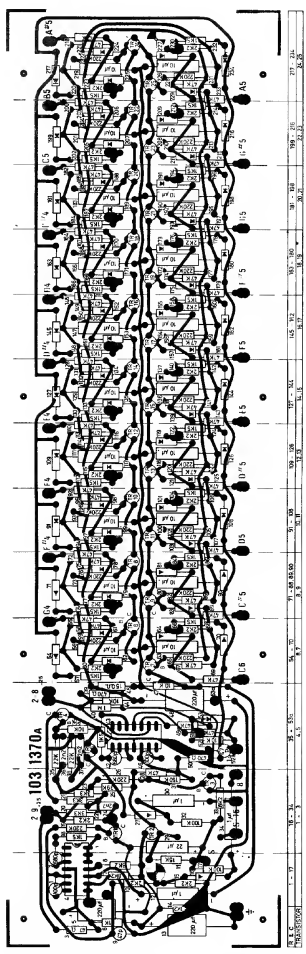
210 3392	RESISTOR	5
210 3104	"	76
210 304A	"	1
310 2103	CAPACITOR	3
310 2104	"	4
100 3660	CIRCUITBOARD	
PART NO.	NAME	POSITION

PART NO. 003-2162
SUPPLEMENTARY CIRCUIT

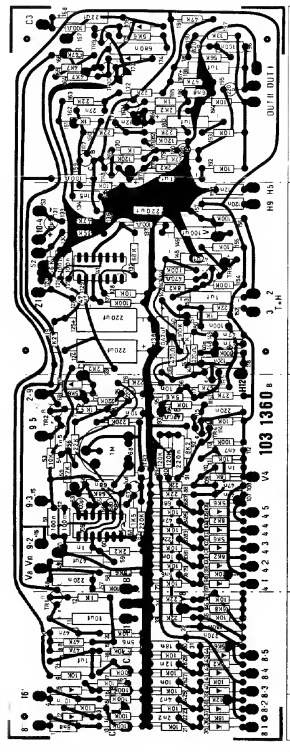


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PART NO.	003 3015
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REGISTRATION	12/20/20	12/21/20	12/22/20	12/23/20	12/24/20	12/25/20	12/26/20	12/27/20	12/28/20	12/29/20	12/30/20	12/31/20	1/1/21	1/2/21	1/3/21	1/4/21	1/5/21	1/6/21	1/7/21	1/8/21	1/9/21	1/10/21	1/11/21	1/12/21	1/13/21	1/14/21	1/15/21	1/16/21	1/17/21	1/18/21	1/19/21	1/20/21	1/21/21	1/22/21	1/23/21	1/24/21	1/25/21	1/26/21	1/27/21	1/28/21	1/29/21	1/30/21	1/31/21	2/1/21	2/2/21	2/3/21	2/4/21	2/5/21	2/6/21	2/7/21	2/8/21	2/9/21	2/10/21	2/11/21	2/12/21	2/13/21	2/14/21	2/15/21	2/16/21	2/17/21	2/18/21	2/19/21	2/20/21	2/21/21	2/22/21	2/23/21	2/24/21	2/25/21	2/26/21	2/27/21	2/28/21	2/29/21	2/30/21	3/1/21	3/2/21	3/3/21	3/4/21	3/5/21	3/6/21	3/7/21	3/8/21	3/9/21	3/10/21	3/11/21	3/12/21	3/13/21	3/14/21	3/15/21	3/16/21	3/17/21	3/18/21	3/19/21	3/20/21	3/21/21	3/22/21	3/23/21	3/24/21	3/25/21	3/26/21	3/27/21	3/28/21	3/29/21	3/30/21	3/31/21	4/1/21	4/2/21	4/3/21	4/4/21	4/5/21	4/6/21	4/7/21	4/8/21	4/9/21	4/10/21	4/11/21	4/12/21	4/13/21	4/14/21	4/15/21	4/16/21	4/17/21	4/18/21	4/19/21	4/20/21	4/21/21	4/22/21	4/23/21	4/24/21	4/25/21	4/26/21	4/27/21	4/28/21	4/29/21	4/30/21	5/1/21	5/2/21	5/3/21	5/4/21	5/5/21	5/6/21	5/7/21	5/8/21	5/9/21	5/10/21	5/11/21	5/12/21	5/13/21	5/14/21	5/15/21	5/16/21	5/17/21	5/18/21	5/19/21	5/20/21	5/21/21	5/22/21	5/23/21	5/24/21	5/25/21	5/26/21	5/27/21	5/28/21	5/29/21	5/30/21	5/31/21	6/1/21	6/2/21	6/3/21	6/4/21	6/5/21	6/6/21	6/7/21	6/8/21	6/9/21	6/10/21	6/11/21	6/12/21	6/13/21	6/14/21	6/15/21	6/16/21	6/17/21	6/18/21	6/19/21	6/20/21	6/21/21	6/22/21	6/23/21	6/24/21	6/25/21	6/26/21	6/27/21	6/28/21	6/29/21	6/30/21	7/1/21	7/2/21	7/3/21	7/4/21	7/5/21	7/6/21	7/7/21	7/8/21	7/9/21	7/10/21	7/11/21	7/12/21	7/13/21	7/14/21	7/15/21	7/16/21	7/17/21	7/18/21	7/19/21	7/20/21	7/21/21	7/22/21	7/23/21	7/24/21	7/25/21	7/26/21	7/27/21	7/28/21	7/29/21	7/30/21	7/31/21	8/1/21	8/2/21	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21	8/24/21	8/25/21	8/26/21	8/27/21	8/28/21	8/29/21	8/30/21	8/31/21	9/1/21	9/2/21	9/3/21	9/4/21	9/5/21	9/6/21	9/7/21	9/8/21	9/9/21	9/10/21	9/11/21	9/12/21	9/13/21	9/14/21	9/15/21	9/16/21	9/17/21	9/18/21	9/19/21	9/20/21	9/21/21	9/22/21	9/23/21	9/24/21	9/25/21	9/26/21	9/27/21	9/28/21	9/29/21	9/30/21	10/1/21	10/2/21	10/3/21	10/4/21	10/5/21	10/6/21	10/7/21	10/8/21	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21	10/30/21	10/31/21	11/1/21	11/2/21	11/3/21	11/4/21	11/5/21	11/6/21	11/7/21	11/8/21	11/9/21	11/10/21	11/11/21	11/12/21	11/13/21	11/14/21	11/15/21	11/16/21	11/17/21	11/18/21	11/19/21	11/20/21	11/21/21	11/22/21	11/23/21	11/24/21	11/25/21	11/26/21	11/27/21	11/28/21	11/29/21	11/30/21	12/1/21	12/2/21	12/3/21	12/4/21	12/5/21	12/6/21	12/7/21	12/8/21	12/9/21	12/10/21	12/11/21	12/12/21	12/13/21	12/14/21	12/15/21	12/16/21	12/17/21	12/18/21	12/19/21	12/20/21	12/21/21	12/22/21	12/23/21	12/24/21	12/25/21	12/26/21	12/27/21	12/28/21	12/29/21	12/30/21	12/31/21																																																																																																																																																																																																																																																																																																																				
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REGISTER CIRCUIT	PART NO. 003 3016	G
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240.3153	RESISTOR	135
315.633	CONDUCTOR	137
420.0319	SWITCH	138
496.0709	IC	60
548.0761	"	139
101.1323	SCOUT BOARD	
PART NO.	NAME	POSITION NO.